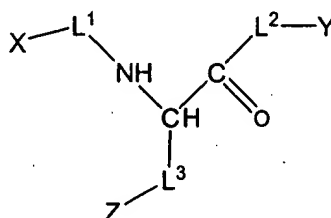


This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

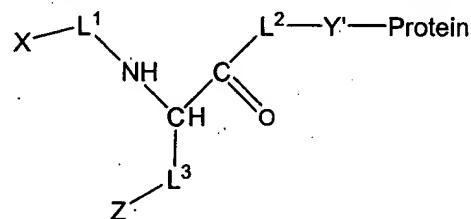
- 1                    1.        (Previously presented) A heterofunctional crosslinking reagent having  
2        the formula:



3        wherein

- 4            L<sup>1</sup> and L<sup>2</sup> are each independently selected from the group consisting of a bond, a  
5            substituted or unsubstituted (C<sub>2</sub>-C<sub>24</sub>) alkylene group, a substituted or  
6            unsubstituted (C<sub>2</sub>-C<sub>24</sub>) heteroalkylene group, a polyethyleneglycol group, a  
7            polyalcohol group, a polyamine group, a polyester group and a  
8            polyphosphodiester group;  
9            -L<sup>3</sup>-Z is an optionally protected amino acid side chain having a pendant reactive  
10           group, said reactive group selected from the group consisting of lysine,  
11           cysteine, serine, aspartic acid, glutamic acid, and threonine;  
12           X is a non-covalent protein tag binder that specifically binds to a protein tag portion  
13           of a protein; and  
14           Y is a photoactivatable covalent crosslinking group adapted to covalently link the  
15           heterofunctional crosslinking reagent at or adjacent to said protein tag, said  
16           said photoactivatable covalent crosslinking group is a member selected from  
17           the group consisting of aryl ketones, azides, diazo compounds, diazirenes, and  
18           ketenes.

- 1           2.-4.    (Canceled)



16 group covalently attached at or adjacent to said protein tag portion of said  
17 protein, said photoactivatable covalent crosslinking group is a member  
18 selected from the group consisting of aryl ketones, azides, diazo compounds,  
19 diazirenes, and ketenes.

1 27.-77. (Canceled)

1 78. (Previously presented) A heterofunctional crosslinking reagent of  
2 claim 1, wherein X is an antibody or antibody fragment.